

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



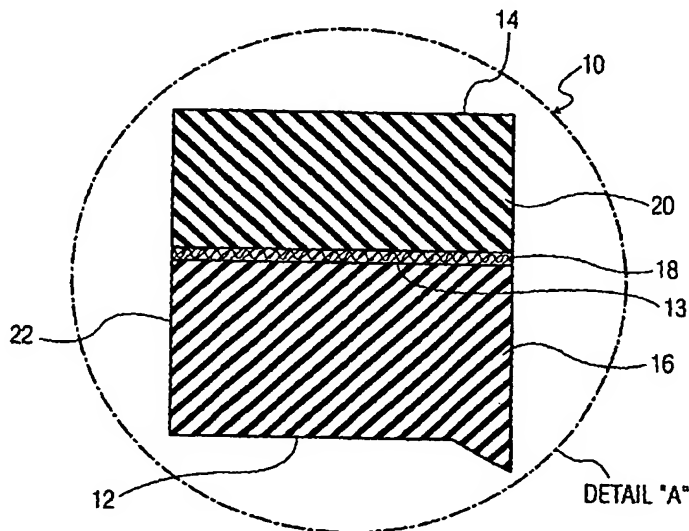
(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/031501 A1

- (51) International Patent Classification⁷: **E04B 1/82, 2/02**
- (21) International Application Number:
PCT/US2003/031348
- (22) International Filing Date: 1 October 2003 (01.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/415,054 1 October 2002 (01.10.2002) US
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **DOWNEY, Paul, C.** [CA/CA]; 33 Craighurst Avenue, Toronto, Ontario MYR-1J9 (CA).
- (74) Agent: **ANASTASI, Salvatore**; Barley Snyder, Suite 275, 5 Westlakes Drive, Berwyn, PA 19312 (US).
- (81) Designated States (national): CA, US.
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (71) Applicant (for all designated States except US): **DODGE-REGUPOL, INCORPORATED** [US/US]; 715 Fountain Avenue, Lancaster, PA 17601 (US).
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOISE AND VIBRATION MITIGATING MAT



(57) Abstract: A multi-layer noise mitigating mat (10) is provided by the present invention. A first layer (16) is formed of bound rubber and features a profiled surface forming a bottom surface (12) of the mat (10) and a flat surface (13) opposite the profiled surface. A second layer (18) consists of a fabric or reinforcing agent which is affixed to the first layer (16) along its flat surface (13). A third layer (20) formed of bound rubber is affixed to the second layer (18) forming the top surface (14) of the mat.